

Amendments to the Claims:

This listing of claims replaces all prior versions, and listings, of claims in the application:

1. (canceled)

2. (canceled)

3. A method for harnessing the energy in compressed fluid to do usable work, comprising the steps of:

providing a constant volume chamber;

~~providing an energy reservoir of compressed fluid on demand by activating a phase change in~~
positioning a phase change material positioned in a said constant volume container; and

actuating said phase change material when energy is needed; and

connecting a pressure-driven load ~~in fluid communication with~~ to said energy reservoir of
compressed fluid ~~so that explosive pressure generated by actuation of said phase change material~~
drives said pressure-driven load;

whereby an energy reservoir of compressed fluid is provided on demand.

4. (original) The method of claim 3, wherein the pressure-driven load is a turbine adapted to generate electrical power.

5. (original) The method of claim 3, wherein the pressure-driven load is a pump.

6. (original) The method of claim 3, wherein the pressure-driven load is a piezo-chamber adapted to generate electrical power.

7. (original) The method of claim 3, further comprising the step of positioning said pressure-driven load between said energy reservoir of compressed fluid and a high pressure storage tank where said energy reservoir of compressed fluid is in fluid communication with an input of said

pressure driven load and said high pressure storage tank is in fluid communication with an output of said pressure-driven load.

8. (original) The method of claim 7, further comprising the step of positioning a pneumatic circuit in fluid communication between said energy reservoir of compressed fluid and said high pressure storage tank.

9. (original) The method of claim 8, further comprising the step of connecting a mechanical load to an output of said pneumatic circuit.

10. (original) The method of claim 8, further comprising the step of connecting a fluidic load to an output of said pneumatic circuit.

11. (original) The method of claim 7, further comprising the step of positioning a hydraulic circuit in fluid communication between said energy reservoir of compressed fluid and a high pressure storage tank.

12. (original) The method of claim 11, further comprising the step of connecting a mechanical load to an output of said hydraulic circuit.

13. (original) The method of claim 11, further comprising the step of connecting a fluidic load to an output of said hydraulic circuit.

14. (canceled)